

Appl. No. 10/517,689
Amendment and/or Response
Reply to Office action of 22 February 2006

Page 7 of 12

REMARKS/DISCUSSION OF ISSUES

By this amendment, Applicants amend claims 1-12 and 14, and adds new claims 15-18.

Accordingly, claims 1-18 are pending in the application.

Applicants thank the Examiner for acknowledging the claim for priority and receipt of certified copies of all the priority documents, and for indicating that the drawings are acceptable.

Claims 2-12 are amended for non-statutory reasons, to replace European-style claim phraseology with American-style claim language. In particular, claim 5 has also been rewritten in independent form including all limitations of the base claim 1 and the Intervening claim 3. The claims are not narrowed in scope and no new matter is added.

New claims are added to at least partially restore the original range of claims that existed before multiple dependencies were removed in the preliminary amendment. No new matter is added.

35 U.S.C. § 112

Applicants respectfully submit that the amendments to claims 1 and 14 overcome the rejections under 35 U.S.C. § 112.

CLAIM OBJECTIONS

Applicants respectfully submit that the amendment to claim 5 overcomes the claim objections

35 U.S.C. § 102

The Office Action rejects the originally-filed claims 1-14 under 35 U.S.C. § 102(b) over Ito et al. U.S. Patent Publication 2001/0015701 ("Ito").

Applicants respectfully submit that all of the pending claims 1-14 are patentable over Ito for at least the following reasons.

Atty. Docket No. DE-020157

Appl. No. 10/517,689
Amendment and/or Response
Reply to Office action of 22 February 2006

Page 8 of 12

Claim 1

Among other things, in the antenna of claim 1 each of the first and second printed wiring structures includes a first printed wire on the end face extending from a first one of the side faces to a second one of the side faces along one of the edges of the end face, a second printed wire disposed on the end face in parallel to and spaced apart from the first printed wire, and also extending from the first side face to the second side face, and a third printed wire disposed on the end face extending between the first printed wire and the second printed wire perpendicularly to the first and second printed wires to connect the first printed wire to the second printed wire.

Applicants respectfully submit that lto does not disclose an antenna including the recited first and second printed wiring structures. In particular, none of the embodiments disclosed by lto includes **a third printed wire disposed on the end face extending between the first printed wire and the second printed wire perpendicularly to the first and second printed wires to connect the first printed wire to the second printed wire.**

The Office Action cites elements 11a, 11a', 12a, and 12a' in FIG. 11 of lto as supposedly corresponding to the recited third printed wire.

However, the third printed wires of claim 1 are each disposed on the same end face of the dielectric substrate as the first and second printed wires of the first and second printed wiring structures. An exemplary and non-limiting embodiment illustrating this feature is shown in FIG. 5 of the present application. In direct and clear contrast, elements 11a, 11a', 12a, and 12a' in FIG. 11 of lto are **not** disposed on the same upper face (end surface) 2a' as lines 11, 11', 12 and 12', but are instead disposed on side face 2b.

So elements 11a, 11a', 12a, and 12a' in FIG. 11 of lto cannot correspond to the third printed wires of claim 1.

Furthermore, each third printed wire of claim 1 connects the first printed wire to the second printed wire.

In contrast, as plainly seen in FIG. 11 of lto, none of the elements 11a, 11a', 12a, and 12a', alone or in combination, connect the first printed wires 11/12 to the

Atty. Docket No. DE-020157

Appl. No. 10/517,689
Amendment and/or Response
Reply to Office action of 22 February 2006

Page 9 of 12

second printed wires 11'/12'.

Accordingly, for at least these reasons, Applicants respectfully submit that claim 1 is patentable over lto.

Claims 2-4 and 12-14

Claims 2-4 and 12-14 depend from claim 1 and are deemed patentable for at least the reasons set forth above with respect to claim 1.

Claim 5

At the outset, claim 5 has been rewritten in independent form including all limitations of the base claim 1 and the intervening claim 3 and is of identical scope to the originally-filed claim 5.

Among other things, in the antenna of claim 5, the first printed wire and the

the second printed wire